

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 20/04000502

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N1/32 H01J37/20 H01J37/305 G01N23/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/050565 A1 (TOMIMATSU SATOSHI ET AL) 2 May 2002 (2002-05-02) abstract; claims 1-16; figures 3-5 paragraph '0050! - paragraph '0055! ---	1-15
Y	US 4 916 314 A (SMITH MICHAEL P) 10 April 1990 (1990-04-10) abstract; figures 2-4 column 3, line 46 -column 5, line 20 ---	1-15
A	US 2001/045511 A1 (KRUGER ROCKY D ET AL) 29 November 2001 (2001-11-29) abstract; claims 1-16; figures 2-5 ---	1-15
A	US 5 270 552 A (OHNISHI TSUYOSHI ET AL) 14 December 1993 (1993-12-14) abstract; claims 1-15; figures 1-3 ---	1-15
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

5 April 2004

Date of mailing of the international search report

21/05/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 009, no. 095 (E-310), 24 April 1985 (1985-04-24) -& JP 59 221955 A (KOKUSAI SEIKOU:KK), 13 December 1984 (1984-12-13) the whole document ---	1, 15
X	PETERSON S L ET AL: "INEXPENSIVE ULTRAHIGH VACUUM HEATABLE/COOLABLE XYZ-ROTARY MOTION SAMPLE MANIPULATOR" REVIEW OF SCIENTIFIC INSTRUMENTS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 66, no. 4, 1 April 1995 (1995-04-01), pages 3048-3050, XP000501104 ISSN: 0034-6748 abstract ---	1, 15
X	US 2001/017060 A1 (OFFEN REIMER ET AL) 30 August 2001 (2001-08-30) abstract paragraph '0003! - paragraph '0005! -----	1

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information on patent family members

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